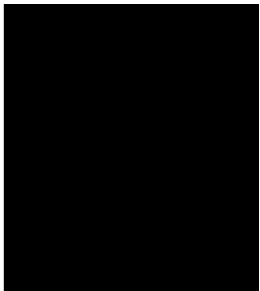
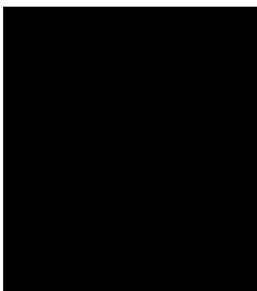




# DEPARTMENT OF PULMONARY & MEDIASTINAL PATHOLOGY



Michael N. Koss, M.D.  
Cochairperson  
Date of Appointment -  
1 July 1990



William D. Travis, M.D.  
Cochairperson  
Date of Appointment -  
1 November 1993



Cesar Moran, M.D.  
Associate Chairperson  
Date of Appointment -  
1 September 1995

## MISSION

The mission of this department includes consultation, education, and research in pulmonary and mediastinal pathology.

## ORGANIZATION

The department has one subdivision and the Office of the Chairperson.  
Division of Mediastinal Pathology - Cesar Moran, Maj, USAF, MC

## STAFF

### *Medical*

- Liselotte Hochholzer, M.D.
- Michael N. Koss, M.D.
- Cesar Moran, Maj, USAF, MC
- William D. Travis, M.D.
- Walter L. Rush, M.D., Fellow
- (A) Mary Klassen, M.D., Fellow
- (D) Ronald Przygodzki, M.D., ARP Fellow
- Marian V. Fleming, J.D., M.D., ARP Fellow
- (A) Louise Burke, M.D., ARP Fellow
- Tomayoshi Hayashi, M.D., Ph.D., Guest Fellow, NIH-National Heart, Lung, and Blood Institute/AFIP (Sponsored by Nagasaki University, Japan)

### *Administrative*

- Tammie Winters, Secretary
- Michele Kelly, Secretary (half-time)

## CONSULTATION

### *Cases*

Description	Received
Surgical .....	1,699
Autopsy .....	97
Military .....	313
Army .....	94
Navy .....	32
Air Force .....	187
Federal .....	476
VA .....	452
PHS .....	0
Other Federal .....	1
Intramural .....	221
Civilian .....	1,030
Total	1,819

The majority of the specimens consist of difficult neoplastic and nonneoplastic pulmonary specimens. In addition, we receive a number of difficult and challenging mediastinal specimens.

## RESEARCH

The department is very active in studying pulmonary and mediastinal lesions. Although he had already left our department, our first fellow, Donald Guinee, had a paper published in *Carcinogenesis* on gender differences in p53 in lung cancer. This publication was based on work done at NIH in the Laboratory of Human Carcinogenesis, headed by Dr. Curt Harris. He also had two other case reports published, one on an angiomylipoma of the lung and another on micronodular pneumocyte hyperplasia in the lung of a patient with tuberous sclerosis. We have continued to collaborate with him on molecular projects studying lung disease.

Our second fellow, Dr. Przygodzki, is presenting a project on K-ras abnormalities in the Mayo-NCI lung cancer series at the USCAP meeting in Washington, D.C. During his time at the NCI in Dr. Harris' laboratory, he worked on K-ras in hepatic angiosarcomas and demonstrated the presence of mutations in some of the tumors. This work will also be presented at the USCAP meeting in Washington, D.C. He also has been involved with several other projects, including p53 abnormalities in mediastinal seminomas and pleomorphic carcinomas of the lung as well as glutathione-S-transferase M in lung cancer. He won the AFIP residents prize in June of 1995, for his paper on p53 and neuroendocrine tumors of the lung. This paper was recently accepted for publication in the *American Journal of Pathology*.

Our third fellow, Dr. Marian Fleming, presented her first project on bcl-2 in lung cancer, based on the NCI-Mayo series, at the USCAP meeting in Toronto in 1995. In addition, she is an author on three papers published in the past year. She was senior author on one of these papers. She will be presenting two papers at the USCAP meeting in Washington, D.C., one on apoptosis in the Mayo-NCI lung cancer series and another on bcl-2 and prognosis in neuroendocrine tumors of the lung. During her year at the NIH, she performed a difficult apoptag assay on 100 lung cancer specimens. In addition, she did an outstanding job organizing many details regarding the specimens and patient data for the Mayo-NCI lung cancer series.

Dr. Tomayoshi Hayashi, a visiting fellow from Nagasaki, Japan, presented at the USCAP meeting

in Toronto an elaborate project using immunohistochemistry and confocal microscopy with double-staining immunofluorescence to investigate the distribution of metalloproteinases (progelatinase A & B and tissue inhibitors of metalloproteinase 1 & 2) in interstitial lung disease. The manuscript for this paper has been submitted for publication. This work was done in collaboration with the Pathology Section of the National Heart, Lung, and Blood Institute at the NIH, under Dr. Victor Ferrans, as well as with the laboratory of Dr. Lance Liotta in the Laboratory of the NCI. He has also completed projects on histiocytosis X and lymphangioleiomyomatosis (LAM). The project on LAM will be presented at the USCAP meeting in Washington, D.C.

Dr. Louise Burke joined the department from Cork, Ireland. She was only in our department for 3 months in 1995, but has shown great promise as a diagnostic lung pathologist and great academic potential. This short period of time was not sufficient for her to complete any projects.

Dr. Moran has been working on many projects relating to mediastinal tumors and some unusual lung tumors. He is completing large studies of thymomas and germ cell tumors of the mediastinum. He also presented at a number of national and international meetings. He is also working with the World Health Organization on classification of mediastinal tumors. The many papers published are listed below.

The department had 11 research protocols listed as follows:

***Research Protocols:***

Atypical carcinoid tumors of the lung: a clinicopathologic study of 150 cases

Lymphomatoid granulomatosis: analysis of 10 cases by combined immunohistochemistry/in situ hybridization

Molecular biology of lung cancer p53 mutations in familial tumors

Chronic fibrosing pleuritis, atypical mesothelial hyperplastic and desmoplastic mesothelioma

Germ cell tumors of the mediastinum

Pulmonary carcinosarcoma

Neuroendocrine tumors of the lung: clinicopathologic study with correlation analysis of mutations in p53

Inflammatory pseudotumors of the lung: a clinicopathologic study of 75 cases

Extracellular matrix turnover in diffuse alveolar damage (DAD)

Extracellular matrix turnover in usual interstitial pneumonia (UIP)

***Grants:***

The department was awarded \$25,000 in grant money from the AFIP/ARP to study the molecular biology of lung cancer.

## EDUCATION

We have made good progress in our efforts to establish the department as an international center for training in pulmonary pathology. The publications, courses, and other educational programs given around the United States and the world have accomplished a lot to bring recognition to the department.

During the first 3 months of 1995, we had a staff pathologist from Temple University spend a sabbatical with us. This was greatly beneficial to his training in lung pathology.

During 1995, we had two pulmonary clinicians rotate in the department from Howard University and the Bethesda National Naval Medical Center. We also had one pathology resident from George Washington University Medical School spend a 1-month rotation in our department.

## EDUCATION

### **Dr. Moran:**

Moran CA, Heffess CS, Mullick FG  
Controversies and Recent Advances in Surgical Pathology (Spanish version) AFIP course  
Puerto Rico, May 31-June 3, 1995

Moran CA, Wenig B  
Difficult Diagnoses in Surgical Pathology  
Charleston, S.C., October 23-26, 1995

Moran CA, Suster S  
Short course, Mediastinal Pathology  
ASCP meeting  
New Orleans, La., September 19, 1995.

### **Drs. Koss and Travis**

April 23, 1995: Codirector, *Unusual Tumor and Tumor-like Lesions of the Lung*, American Society of Clinical Pathologists; Orlando, Fla.

March 17, 1995: *Unusual Tumors and Tumor-Like Conditions of the Lung*, United States-Canadian Academy of Pathology short course, Toronto, Canada.

### **Dr. Travis**

February 1995: Course director, *Recent Concepts in Lung Cancer, Part 1 and 2*, Surgical Pathology of the Respiratory Tract and Mediastinum, San Antonio, Texas.

September 5, 1995: *New Developments in Pulmonary Neuroendocrine Tumors*, chairman of Symposium on Pulmonary Neuroendocrine Tumors, XV European Congress of Pathology, Copenhagen, Denmark.

December 1-3, 1995: Course director, Respiratory Tract and Mediastinum, *Problems in Pleural Biopsy Interpretation, Pathology of Pulmonary Vasculitis*, Disneyworld, Orlando, Fla.

## GOALS

The goals of this department are to increase our access and visibility as a national and international training center for pulmonary and mediastinal pathology. The fellowship training program is at the center of this mission. By providing expert consultations, giving excellent national and international courses, and publishing quality articles, we can achieve this goal.

In order to accomplish this goal, it will be necessary to continue to have the full support of the ARP and AFIP administration.

## PRESENTATIONS

1. March 3, 1995: Bethesda, Md., National Institutes of Health, "Mediastinal Pathology," Cesar Moran, M.D.
2. February 17, 1995: San Antonio, Texas, AFIP course, "Pulmonary and Mediastinal Pathology," Cesar Moran, M.D.
3. April 11, 1995: Bethesda, Md., Naval Medical Center, "Mediastinal Pathology," Cesar Moran, M.D.
4. September 14, 1995: Washington Society of Pathologists, "Mediastinal Epithelial Neoplasms: A Practical Approach," Cesar Moran, M.D.
5. September 18, 1995: New Orleans, LAASCP meeting, "Mediastinal Pathology," Cesar Moran, M.D.

6. October 13, 1995: Bethesda, Md., National Institutes of Health, "Unusual Tumors of the Lung," Cesar Moran, M.D.
7. October 23, 1995: Charleston, S.C., AFIP course, "Difficult Diagnoses in Surgical Pathology," "Salivary Gland-type Tumors of the Lung," Cesar Moran, M.D.
8. October 18, 1995: Caracas, Venezuela, South America, V Congress of Anatomic Pathology, "Selected Topics in Pulmonary and Mediastinal Pathology," Cesar Moran, M.D.
9. November 14 and 15, 1995: Montevideo, Uruguay, South America, Congress of Anatomic Pathology, "Selected Topics in Pulmonary and Mediastinal Pathology," Cesar Moran, M.D.
10. December 3, 1995: Orlando, Fla., AFIP course, "Pulmonary and Mediastinal Pathology," Cesar Moran, M.D.
11. December 7, 1995: Miami Beach, Fla., Mount Sinai Medical Center, "Selected Topics in Pulmonary and Mediastinal Pathology," Cesar Moran, M.D.
12. February 17, 1995: San Antonio, Texas, AFIP course, "Respiratory Tract and Mediastinum," Michael Koss, M.D.
13. March 17, 1995: Toronto, Canada, short course of the U.S. and Canadian Academy of Pathology, "Tumors and Tumor-like Conditions of the Lung," Michael Koss, M.D.
14. April 4, 1995, Annapolis, Md., Osler Institute Pathology Review Course, "Renal Pathology," Michael Koss, M.D.
15. April 11, 1995: Washington, D.C., National Naval Medical Center, Pathology Department, Michael Koss, M.D.
16. April 23, 1995: Orlando, Fla., American Society of Clinical Pathology Spring National Meeting, codirector, Workshop #1259, "Unusual Tumors and Tumor-like Lesions of the Lung," Michael Koss, M.D.
17. May 17-19, 1995: El Paso, Texas, William Beaumont Army Medical Center, visiting pathology consultant, Michael Koss, M.D.
18. October 23-26, 1995: Charleston, S.C., AFIP course, "Difficult Diagnoses in Surgical Pathology," Michael Koss, M.D.
19. December 1995: Orlando, Fla., AFIP course, "Respiratory Tract and Mediastinum," Michael Koss, M.D.
20. January 19, 1995: New York, N.Y., New York Pathological Society, "Slide Seminar on Lung Tumors," William Travis, M.D.
21. February 1995: San Antonio, Texas, Recent Concepts in Lung Cancer, Part 1 and 2, "Surgical Pathology of the Respiratory Tract and Mediastinum," William Travis, M.D.
22. March 15, 1995; Toronto, Canada, United States-Canadian Academy of Pathology, Respiratory Panel Case Presentation, "Giant Cell Viral Pneumonia Associated with Parainfluenza, Type 3, and Respiratory Syncytial Virus," William Travis, M.D.
23. March 17, 1995: Toronto, Canada, United States-Canadian Academy of Pathology short course, "Unusual Tumors and Tumor-Like Conditions of the Lung," William Travis, M.D.
24. April 12, 1995: Washington, D.C., Department of Pulmonary Medicine, Walter Reed Army Medical Center, "Lung Pathology of Collagen Vascular Diseases," William Travis, M.D.
25. April 23, 1995: Orlando, Fla., American Society of Clinical Pathologists, "Unusual Tumor and Tumor-like Lesions of the Lung," William Travis, M.D.
26. May 3, 1995; Bethesda, Md., AFIP Hematopathology Course, "Systemic Mast Cell Disease and

- the Differential Diagnosis of Non-lymphoid Mediastinal Lesions,” William Travis, M.D.
27. May 11-13, 1995: Dallas, Texas, Current Issues in Surgical Pathology XIV, “Update on Pathology of Pulmonary Vasculitis and Recent Concepts in Pulmonary Neuroendocrine Tumors,” William Travis, M.D.
  28. June 8 and 9, 1995: Lisbon, Portugal, Hospital de Pulido Valente, “Recent Concepts in Neuroendocrine Lung Tumors,” William Travis, M.D.
  29. July 2 and 3, 1995: Snowmass, Colo., Recent Concepts in Lung Cancer, Part 1 and 2; “Problems in Diagnosis of Pleural Tumors,” “Contemporary Issues In Surgical Pathology,” William Travis, M.D.
  30. August 29, 1995: Baltimore, Md., Department of Pathology, Sinai Hospital, “Difficulties in Diagnosis of Pleural Tumor,” William Travis, M.D.
  31. September 5, 1995: Copenhagen, Denmark, European Congress of Pathology, “New Developments in Pulmonary Neuroendocrine Tumors,” chairman of Symposium on Pulmonary Neuroendocrine Tumors, XV, William Travis, M.D.
  32. November 3, 1995: Memphis, Tenn., University of Tennessee, “Problems in Interpretation of Pleural Biopsies,” William Travis, M.D.
  33. December 1-3, 1995: Disneyworld, Orlando, Fla., Respiratory Tract and Mediastinum, “Problems in Pleural Biopsy Interpretation,” “Pathology of Pulmonary Vasculitis,” William Travis, M.D.
  34. December 8, 1995: New York, N.Y., American Thoracic Society, “Pathology Diagnosis for Task Force for Pretreatment Evaluation of Lung Cancer, 1995,” William Travis, M.D.
  35. December 11 and 12, 1995: Atlanta, Ga., Emory University School of Medicine, Pathology Faculty Grand Rounds, “Difficulties in Diagnosis of Pleural Tumor,” and slide seminar, William Travis, M.D.

In addition, Dr. Travis attends the monthly, quarterly, and annual meetings of the DC Thoracic Society, which is the local chapter of the American Thoracic Society. He regularly presents the pathology for the case presentations for those patients with available lung pathology specimens. These specimens are often submitted to the department in advance from hospitals around the Washington, D.C., area.

## PANELS AND COMMITTEES

### ***Dr. Koss***

Panel member, National Cancer Institute Special Review Committee for Specialized Programs of Research Excellence (SPORE) in Lung Cancer, Rockville, Md., November 12-14, 1995.

### ***Dr. Moran***

Panel member, World Health Organization for Classification of Mediastinal Tumors.

### ***Dr. Travis***

International Association for the Study of Lung Cancer, panel member, 1994-present; coordinator for Classification of Neuroendocrine Lung Tumors, 1994-present; panel secretary, 1995-present.

World Health Organization Panel for Histologic Classification of Lung Tumors, chairman, 1995-present.

United States-Canadian Mesothelioma Reference Panel, panel member, 1995-present.

United States Education Committee, American College of Chest Physicians, panel member, 1995-present.

Task Force for Pretreatment Evaluation of Lung Cancer, 1995, American Thoracic Society.

## PUBLICATIONS

### *Journal Articles*

1. Moran CA, Suster S, Fishback N, Koss MN. Intrapulmonary thymomas: a clinicopathologic and immunohistochemical study of 8 cases. *Am J Surg Pathol.* 1995;19:304-312.
2. Suster S, Sorace D, Moran CA. Gastrointestinal stromal tumors with prominent myxoid matrix. *Am J Surg Pathol.* 1995;19:59-70.
3. Moran CA, Suster S. Mediastinal hemangiomas: a study of 18 cases with emphasis on the spectrum of morphologic features. *Hum Pathol.* 1995;26:416-421.
4. Moran CA, Suster S, Fishback N, Koss MN. Extramedullary plasmacytomas presenting as mediastinal masses. *Mod Pathol.* 1995;8:249-251.
5. Moran CA, Suster S, Fishback N, Koss MN. Extramedullary hematopoiesis presenting as mediastinal mass. *Mod Pathol.* 1995;8:257-259.
6. Zeren H, Moran CA, Suster S, Fishback N, Koss MN. Primary intrapulmonary sarcoma with features of monophasic synovial sarcoma. *Hum Pathol.* 1995;26:474-480.
7. Klimstra D, Moran CA, Perino G, Koss MN, Rosai J. Primary liposarcomas of the anterior mediastinum: a study of 27 cases. *Am J Surg Pathol.* 1995;19:782-791.
8. Moran CA, Rosado-de-Christenson M, Suster S. Thymolipomas: a clinicopathologic correlation of 33 cases. *Mod Pathol.* 1995;8:741-744.
9. Moran CA, Suster S. Primary mucoepidermoid carcinomas of the thymus. *Am J Surg Pathol.* 1995;19:826-834.
10. Moran CA, Suster S, Koss MN. Primary smooth muscle tumors of the pleura. *Histopathology.* 1995;27:227-234.
11. Moran CA, Nelson AM, Tuur S, Mputu L, Meyers WM. HIV infection and leprosy. *Mod Pathol.* 1995;8:662-664.
12. Suster S, Moran CA. Primary chordomas of the mediastinum. *Hum Pathol.* 1995;26:1354-1362.
13. Przygodzki R, Moran CA, Suster S, Koss MN. Primary rhabdomyosarcoma of the lung in adults: a clinicopathologic correlation of 3 cases. *Mod Pathol.* 1995;8:658-661.
14. Moran CA, Suster S. Cystic seminomas: a clinicopathologic study of 10 cases. *Am J Surg Pathol.* 1995;19:1047-1053.
15. Suster S, Moran CA. Primary mucinous carcinoids of the anterior mediastinum. *Am J Surg Pathol.* 1995;19:1277-1285.
16. Suster S, Nascimiento A, Miettinen M, Moran CA. Solitary fibrous tumors of the soft tissue. *Am J Surg Pathol.* 1995;19:1257-1266.
17. Travis WD, Travis LB, Devesa S. Lung cancer incidence and prognosis by histologic type, SEER population-based data 1973-1987. *Cancer.* 1995;75:191-202.
18. Barksdale SK, Hallahan CW, Kerr GS, Fauci AS, Stern JB, Travis WD. Cutaneous pathology in Wegener's granulomatosis: a clinicopathologic study of 75 biopsies in 46 patients. *Am J Surg Pathol.* 1995;19:161-172.
19. Guinee DG, Thornberry DS, Azumi N, Przygodzki RS, Koss MN, Travis WD. Unique pulmonary presentation of an angiomyolipoma: analysis of clinical, radiographic, and histopathologic features. *Am J Surg Pathol.* 1995;19:476-480.
20. Guinee D, Travis W, Trivers G, De Benedetti V, Cawley H, Welsh J, Bennett W, Jett J, Colby T, Tazelaar H, Abbondanzo S, Pairolero P, Trastek V, Caporaso N, Liotta L, Harris C. Gender comparisons in human lung cancer: analysis of p53 mutations, anti-p53 serum antibodies and C-erbB-2 expression. *Carcinogenesis.* 1995;16:993-1002.



21. Deavers M, Guinee D, Koss MN, Travis WD. Granular cell tumors of the lung: clinicopathologic study of 20 cases. *Am J Surg Pathol*. 1995;19:627-635.
22. Travis LB, Curtis RE, Bennett WP, Hankey BF, Travis WD, Boice JD. Lung cancer after Hodgkin's disease. *J Natl Cancer Inst*. 1995;87:41-44.
23. Mican JM, DiBisceglie AM, Fong T-L, Travis WD, Kleiner DE, Baker B, Metcalfe DD. Hepatic involvement in mastocytosis: clinicopathologic correlation in 41 cases. *Hepatology*. 1995;22:1163-1170.
24. Saltarelli M, Fleming M, Wenig B, Travis W. Basaloid carcinoma of the trachea: report of two cases. *Am J Clin Pathol*. 1995;104:594-598.
25. Guinee D, Singh R, Azumi N, Singh G, Przygodzki RM, Travis W, Koss M. Multifocal micronodular pneumocyte hyperplasia: a distinctive pulmonary manifestation of tuberous sclerosis. *Mod Pathol*. 1995;8:902-906.
26. England D, Hochholzer L. Truly benign "bronchial adenoma:" report of 10 cases of mucous gland adenoma with immunohistochemical and ultrastructural findings. *Am J Surg Pathol*. 1995;19:887-889.
27. Moran CA. Mucin-rich tumors of the lung. *Advances in Anatomic Pathology*. 1995;2:299-305.
28. McAdams HP, Rosado-de-Christenson M, Lesar M, Templeton P, Moran CA. Thoracic mycoses from endemic fungi: radiologic-pathologic correlation. *Radiographics*. 1995;15:225-270.
29. McAdams HP, Rosado-de-Christenson ML, Templeton PA, Lesar M, Moran CA. Thoracic mycoses from opportunistic fungi: radiologic-pathologic correlation. *Radiographics*. 1995;15:271-286.
30. Suster S, Moran CA. Malignant thymic neoplasms that may mimic benign conditions. *Semin Diagn Pathol*. 1995;12:98-104.
31. Moran CA. Primary salivary gland-type tumors of the lung. *Semin Diagn Pathol*. 1995;12:106-122.
32. Bhero M, Moran CA, Suster S. Mixed epithelial and mesenchymal tumors of the lung. *Semin Diagn Pathol*. 1995;12:123-139.
33. Suster S, Moran CA. Unusual metastases to lung. *Semin Diagn Pathol*. 1995;12:193-206.
34. Moran CA, Suster S. Current status of the classification of thymomas. *Int J Surg Pathol*. 1995;3:67-72.
35. Fishback N, Koss MN. Pulmonary involvement in systemic lupus erythematosus. *Curr Opin Pulm Med*. 1995;1:368-375.
36. Koss MN. Pulmonary lymphoid disorders. *Semin Diagn Pathol*. 1995;12:158-171.
37. Lack EE, Travis, WD. Diagnostic problems in surgical pathology of the adrenal glands. *Mod Pathol*. 1995;8:312-332.
38. Travis WD. Surgical pathology of pulmonary infections. *Semin Thorac Cardiovasc Surg*. 1995;7:62-69.
39. Guest coeditor. Tumors of the lung: selected topics. *Semin Diagn Pathol*. 1995;12.

#### **Books and Chapters**

1. Moran CA. Pulmonary system. In: Weidner N, ed. *The Difficult Diagnosis in Surgical Pathology*. Philadelphia, Pa: WB Saunders Co; 1995:pp 94-142.
2. Fishback NF, Koss MN. Pulmonary manifestations of systemic lupus erythematosus In: Antonovych TT, ed. *Pathology of Systemic Lupus Erythematosus*. Washington, DC: Armed Forces Institute of Pathology, American Registry of Pathology; 1995:101-110.
3. Travis WD, Linder J, Mackay B. Pathology A. Classification, histology, cytology and electron microscopic appearance. In: Pass HI, Mitchell J, Johnson DH, Turrisi AT, eds. *Lung Cancer, Principles and Practice*. Philadelphia, Pa: JB Lippincott Co; 1995.
4. Colby TV, Koss MN, Travis, WD. *Tumors of the Lower Respiratory Tract*. Washington, DC:



Armed Forces Institute of Pathology; 1995. Series 3, Fascicle 13, of the Atlas of Tumor Pathology.

*Abstracts and Other Publications*

1. Suster S, Sorace D, Moran CA. Gastrointestinal stromal tumors with prominent myxoid stroma. *Int J Surg Pathol.* 1995;2:130.
2. Moran CA, Suster S, Fishback N, Koss MN. Primary intrapulmonary thymomas. *Int J Surg Pathol.* 1995;2:489.
3. Moran CA, Zeren H, Suster S, Fishback N, Koss MN. Primary pulmonary sarcoma with features of monophasic synovial sarcoma. *Int J Surg Pathol.* 1995;2:490.
4. Moran CA, Suster S, Perino G, Kaneko M, Koss MN. Malignant smooth muscle tumors presenting as mediastinal soft tissue masses. *Int J Surg Pathol.* 1995;2:491.
5. Moran CA, Suster S. Mucoepidermoid carcinomas of the thymus. *Int J Surg Pathol.* 1995;2:492.
6. Suster S, Moran CA. Mediastinal chordomas. *Int J Surg Pathol.* 1995;2:496.
7. Moran CA, Suster S. Mediastinal hemangiomas. *Int J Surg Pathol.* 1995;2:510.
8. Suster S, Moran CA. Pleomorphic lymphomas of the anterior mediastinum. *Int J Surg Pathol.* 1995;2:514.
9. Moran CA, Suster S, Koss MN. Primary smooth muscle tumors of the pleura: a clinicopathologic and immunohistochemical study of 5 cases. *Mod Pathol.* 1995;8:150A.
10. Moran CA, Suster S. Mediastinal seminomas with prominent cystic changes. *Mod Pathol.* 1995;8:876A.
11. Moran CA, Suster S, Fishback N, Abbondanzo SL, Koss MN. Primary leiomyosarcomas of the lung: a clinicopathologic and immunohistochemical study of 24 cases. *Mod Pathol.* 1995;8:150A.
12. Suster S, Moran CA. Primary mucinous carcinoids of the anterior mediastinum. *Mod Pathol.* 1995;8:902A.
13. Suster S, Nascimiento A, Miettinen M, Moran CA. Solitary fibrous tumors of the soft tissue. *Mod Pathol.* 1995;8:51A.
14. Przygodzki RM, Moran C, Khan MA, Koss M, Finkelstein S. Primary mediastinal seminomas: p53 immunoperoxidase and K-ras-2 gene analysis of 13 cases. *Mod Pathol.* 1995;8:141A.
15. Trivers G, Guinee DG, Travis WD, De Benedetti V, Cawley H, Welsh J, Jett J, Colby T, Tazelaar H, Pairolero P, Bennett W, Trastek V, Caporaso N, Liotta L, Harris CC. p53 serum antibodies, mutational spectrum, and immunohistochemistry in lung carcinomas from 36 female patients. *Proc Am Assoc Cancer Res.* 1995;35:174.
16. Przygodzki RM, Guinee DG, Travis WD, Kahn MA, Jett J, Colby TV, Tazelaar H, Bennett WP, Shields PG, Pairolero P, Trastek V, Caposaro NE, Liotta LA, Harris CC. *GSTM1*, *CYP1A1* and *CYP2E1* genotypes in subjects with lung carcinoma in the NCI-Mayo lung cancer study. *Mod Pathol.* 1995;8:152A.
17. Fleming MV, Guinee DG, Chu WS, Travis WD, Bennett WP, Colby TV, Tazelaar H, Abbondanzo SL, Caporaso NE, Jett J, Pairolero P, Trastek V, Liotta L, Harris CC. Correlates of *bcl-2* immunohistochemical staining in a surgical series of lung cancer patients. *Mod Pathol.* 1995;8:148A.
18. Zeren H, Travis W, Fleming MV, Gal AA, Koss MN. Inflammatory pseudotumor of the lung: a clinicopathologic study of 50 cases. *Mod Pathol.* 1995;8:156A.
19. Wilson R, Fishback N, Colby T, Fleming M, Koss M, Travis W. Intrapulmonary localized fibrous tumor (LFT): a clinicopathologic analysis of 43 cases. *Mod Pathol.* 1995;8:155A.
20. Rush W, Zeren H, Griffin JL, Hitchcock C, Becker RL, Przygodzki RM, Gal A, Koss M, Travis

- WD. Histologic subtypes of pulmonary neuroendocrine (NE) carcinomas: prognostic correlations. *Mod Pathol*. 1995;8:153A.
21. Hayashi T, Fleming M, Fishback N, Koss M, Ferrans V, Travis WD: Extracellular matrix in usual interstitial pneumonia and diffuse alveolar damage. *Mod Pathol*. 1995;8:148A.
  22. Pinkard NB, Wilson RW, Dodd LG, McAdams HP, Koss MN, Travis WD. Calcifying fibrous pseudotumor of pleura: a report of 3 cases of a newly described entity involving the pleura. *Mod Pathol*. 1995;8:151A.
  23. Travis L, Curtis R, Bennett W, Hankey B, Travis W, Boice J. Lung cancer after Hodgkin's disease. *Pathology Research Practice*. 1995;191:800-801.
  24. Travis WD, Hankey B, Travis LB. Second malignancies following small cell lung carcinoma. *Am J Respir Crit Care Med*. 1995;151:A846.
  25. Travis WD. *The Lung. Current Concepts*, edited by Churg A, Katzenstein AL A. *Mod Pathol*. 1995;8:346. Book review.